

**GOVERNMENT OF ANDHRA PRADESH
ABSTRACT**

Rural Development Department - MGNREGS – Artificial recharge of ground water–
Comprehensive survey of Over Exploited and Critical Basins – Modification Orders –
Issued.

PANCHAYAT RAJ & RURAL DEVELOPMENT (RD-II) DEPARTMENT

G.O.Ms.No. 307

Dated:19.08.2010

Read the following:

1. G.O.Ms.No.260, PR&RD(RD-II) Department, Dated:26.07.2010.
2. Minutes of the Meeting held on 05.08.2010.

ORDER:

In the G.O. 1st read above, orders were issued for survey of Over Exploited villages in 110 IWMP –I project villages during the year 2010-11.

2. During the meeting with Ground Water Department held on 05.08.2010, it was suggested that instead of taking up of survey and treatment in few Over Exploited villages in a basin, the entire basin should be taken up for treatment. The systematic treatment of a basin with application of satellite and other data would show visible impact of the works taken up.

3. Government after careful examination of the suggestions made by the Ground Water Department and in partial modification of the orders issued in the G.O. 1st read above, hereby accord permission for a comprehensive survey of all 221 Over exploited and Critical basins falling in various Districts as shown below.

Sl. No	District Name	No of O.E basins	No of Critical basins	Total
1	Anatapur	41	12	53
2	Kadapa	17	15	32
3	Ranga Reddy	13	8	21
4	Chittor	10	13	23
5	Warangal	10	7	17
6	Medak	9	4	13
7	Karimnagar	6	3	9
8	Prakasham	6	2	8
9	Nizamabad	5	9	14
10	Kurnool	4	1	5
11	Krishna	3	1	4
12	Nalgonda	2	7	9
13	Mahabubnagar	2	3	5
14	Nellore	1	2	3
15	Khammam	1	1	2
16	Adilabad	1	0	1
17	Guntur	1	0	1
18	West Godavari	0	1	1
	Total	132	89	221

4. The Commissioner, Rural Development is requested to take up survey of 132 Over Exploited basins in the 1st phase and complete by October 2010. In the 2nd phase, all 89 critical basins are to be taken up for survey from November 2010 and completed by December 2010.

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5. For this purpose, District wise teams shall be formed with Ground Water Specialists and Engineering Consultants of MGNREGS programme. Initially One or Two basins shall be allotted to each team for comprehensive survey and identification of Artificial Recharge Structures and the team shall submit basin wise report to Over Exploited basins Cell in the office of the Commissioner, Rural Development. The reports shall be scrutinized by the Ground Water Department and if they are found scientifically satisfactory; they shall be given further basins. The objective of the survey and treatment of Over Exploited and Critical basins is to increase the present natural percolation of 10% to 15% through Artificial Recharge Structures. The structures so proposed shall be taken up for execution under MGNREGS or Watershed Development Programmes in the years 2010-11 & 2011-12. The teams undertaking the above survey shall be equipped with Basin maps, satellite maps, Topo sheets, cadastral maps and geomorphologic maps of the area along with GPS or GPR enabled cell phones. The exercise shall be undertaken as per the following principles:

- i. While identifying various Ground Water Recharge Structures, the team shall prepare an inventory of all the existing WHS with location and physical condition of each structure.
- ii. Mark the location (lat-Long) of the proposed structures on the given maps and take measurements for generation of estimates.
- iii. The team shall prepare Ground Water Budget for each micro basin/ village with the help of the people and enlighten them on Best Ground Water Management Practices.
- iv. There shall be measurable increase in the ground water levels in the basin resulting in coming out of 'Over Exploited' or 'Critical' situation within a period of 2 years.

6. The Commissioner, Rural Development shall constitute required number of teams in each district as per the number of over exploited /Critical basins with one Ground Water specialist as a leader and two Engineering Consultants as members for each basin. The team shall carryout all the tasks that are listed in the Annexure and complete the survey of all Over Exploited basins by 31st October, 2010. The works shall form part of the shelf of works for MGNREGS and Watershed development programmes. The Commissioner, Rural Development shall also ensure that all the Technical Assistants and Field Assistants in these villages participate in the above exercise during the survey of their village/cluster of villages.

7. A copy of this order is available on the internet and can be accessed at the address: <http://www.rd.ap.gov.in>.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

R.SUBRAHMANYAM
PRINCIPAL SECRETARY TO GOVERNMENT (RD)

To
The Commissioner, Rural Development, Hyderabad
The Director, Ground Water Department,
The Additional Commissioner, Rural Development, Hyderabad
Copy to the Special Secretary, Irrigation (GW) Department
PS to Principal Secretary to Government (RD)
SF/SC

//FORWARDED :: BY ORDER//

SECTION OFFICER

ANNEXURE TO G.O.Ms.No. /RD.II/A1/2010, Dated:19.08.2010

Tasks to be performed by the Teams:

- i. Delineation of micro basins
- ii. Calculation of area of the micro basin
- iii. Runoff estimation
- iv. Traversing the area on 1st and 2nd order streams along and across (Minimum of 2 Sq Kms per day)
- v. Mark feasible sites for recharge structures
- vi. Take measurement like length, depth, width, foundation details, runoff, etc.,
- vii. Estimate repairs and storage details of existing structures
- viii. Inventory of existing bore wells/ open wells in the influence area for base data.
- ix. Collection of well census of the area
- x. Suggest measures for recharge of dried up open wells
- xi. Monitoring of open wells, select sites for few piezo meters
- xii. Suggestions for future Water Management Practices and WALTA.
- xiii. Take lat-long readings with the help of GPS
- xiv. Locate proposed and existing structures on the given map
- xv. Fill up the input data sheets for generation of estimates
- xvi. Preparation and submission of report for each basin.

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